

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Samsung Austin Semiconductor, L.L.C.

AUTHORIZING THE OPERATION OF
Samsung Austin Semiconductor
Samsung Austin Semiconductor 1
Semiconductor and Related Device Manufacturing

LOCATED AT
Travis County, Texas
Latitude 30° 22' 24" Longitude 97° 38' 18"
Regulated Entity Number: RN100518026

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O4088 Issuance Date: _____

For the Commission

Table of Contents

Section	Page
General Terms and Conditions	1
Special Terms and Conditions:	1
Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting.....	1
Additional Monitoring Requirements	8
New Source Review Authorization Requirements	8
Compliance Requirements.....	9
Risk Management Plan	9
Protection of Stratospheric Ozone	9
Temporary Fuel Shortages (30 TAC § 112.15)	10
Permit Location	10
Permit Shield (30 TAC § 122.148)	10
Attachments	11
Applicable Requirements Summary.....	12
Additional Monitoring Requirements	22
Permit Shield	32
New Source Review Authorization References	38
Appendix A.....	47
Acronym List	48

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive

ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity

requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to

condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's

eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)

- 4. The permit holder shall comply with the following 30 TAC Chapter 115, Subchapter F requirements (relating to Cutback Asphalt Requirements):

- A. Title 30 TAC § 115.512(2) (relating to Control Requirements)
 - B. Title 30 TAC § 115.512(3) (relating to Control Requirements)
 - C. Title 30 TAC § 115.517(1) (relating to Exemptions), for long-life stockpiling
 - D. Title 30 TAC § 115.517(2) (relating to Exemptions), for penetrating prime coat use only
5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
- A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
7. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):
- A. Title 40 CFR § 63.11111(e), for records of monthly throughput
 - B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput
 - C. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput
 - D. Title 40 CFR § 63.11115(a), for operation of the source
 - E. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices
 - F. Title 40 CFR § 63.11116(b), for records availability
 - G. Title 40 CFR § 63.11116(d), for portable gasoline containers
8. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local

air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

9. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
11. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
12. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

13. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
14. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

15. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

16. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:

- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Temporary Fuel Shortages (30 TAC § 112.15)

- 17. The permit holder shall comply with the following 30 TAC Chapter 112 requirements:
 - A. Title 30 TAC § 112.15 (relating to Temporary Fuel Shortage Plan Filing Requirements)
 - B. Title 30 TAC § 112.16(a), (a)(1), and (a)(2)(B) - (C) (relating to Temporary Fuel Shortage Plan Operating Requirements)
 - C. Title 30 TAC § 112.17 (relating to Temporary Fuel Shortage Plan Notification Procedures)
 - D. Title 30 TAC § 112.18 (relating to Temporary Fuel Shortage Plan Reporting Requirements)

Permit Location

- 18. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

- 19. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary	13
---------------------------	-----------

Applicable Requirements Summary	15
--	-----------

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GASUNLOAD	LOADING/UNLOADING OPERATIONS	N/A	R5211-GUL1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GEN1	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GEN2	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GEN3	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-ACIDSCRUB	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	AS-1, AS-12, AS-13, AS-14, AS- 15, AS-16, AS-17, AS-18, AS-19, AS-2, AS-20, AS-21, AS-22, AS- 3, AS-4, AS-6, AS-7, AS-8, AS-9	R5121	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-BASESTACK	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	BS-1, BS-10, BS-11, BS-12, BS- 16, BS-17, BS-18, BS-2, BS-3, BS-4, BS-5, BS-6, BS-7, BS-8, BS-9, BS-X	R5121-BS	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-BLR1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B-1, B-2, B-3	R2-DO	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
GRP-BLR1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B-1, B-2, B-3	60Dc-DO	40 CFR Part 60, Subpart Dc	D-Series Fuel Type = Distillate oil.
GRP-BLR1	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	B-1, B-2, B-3	60Dc-NG	40 CFR Part 60, Subpart Dc	D-Series Fuel Type = Natural gas.
GRP-BLRSTACK	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	B-1, B-2, B-3	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-CTSTACK	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	CT-1, CT-2, CT-3, CT-4	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-CTSTACK	EMISSION	CT-1, CT-2, CT-3, CT-4	R5121-CT	30 TAC Chapter 115, Vent	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS			Gas Controls	
GRP-DSLUNLOAD	LOADING/UNLOADING OPERATIONS	DSLUNLOAD, DSLUNLOAD2	R5211	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRP-GEN1	SRIC ENGINES	GEN10, GEN11, GEN12, GEN4, GEN5, GEN6, GEN7, GEN8, GEN9	60IIII	40 CFR Part 60, Subpart IIII	No changing attributes.
GRP-GEN1	SRIC ENGINES	GEN10, GEN11, GEN12, GEN4, GEN5, GEN6, GEN7, GEN8, GEN9	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-TRUCKLOAD	LOADING/UNLOADING OPERATIONS	TRUCKLOAD, TRUCKLOAD2	R5211	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
TO-1A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-TO	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
TO-1B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-TO	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
TO-2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-TO	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
TO-3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-TO	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
TO-4A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-TO	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
TO-4B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5121-TO	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GASUNLOAD	EU	R5211-GUL1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(3)(A) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Plants, excluding gasoline bulk plants, which load <20,000 gallons of VOC into transport vessels per day with a true vapor pressure of 1.5 psia or greater are exempt from this division, except for the specified requirements.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B) § 115.216(3)(D)	None
GEN1	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GEN2	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
GEN3	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)		Table 6.9.a.ii	§ 63.6660(c)	
GRP-ACIDSCRUB	EP	R5121	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in §115.121(c)(1)(B) and (C) of this title less than 30,000 ppmv is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
GRP-BASESTACK	EP	R5121-BS	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in §115.121(c)(1)(B) and (C) of this title less than 30,000 ppmv is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2) § 115.126(3)(C)	§ 115.126 § 115.126(2) § 115.126(3) § 115.126(3)(C)	None
GRP-BLR1	EU	R2-DO	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.9(a) § 112.9(b)	No person may cause, suffer, allow, or permit emissions of SO ₂ from any liquid fuel-fired steam generator, furnace, or heater to exceed 440 ppmv at actual stack conditions and averaged over 3-hours.	§ 112.2(a) ** See Periodic Monitoring Summary	§ 112.2(c)	§ 112.2(b)
GRP-BLR1	EU	60Dc-DO	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.42c(d) § 60.40c(c) § 60.42c(h) § 60.42c(i) § 60.42c(j)	On/after the §60.8 test, oil-fired facilities shall not discharge SO ₂ gases in excess of 215 ng/J (0.50 lb/MMBtu) heat input or, alternatively, combust oil with a greater than 0.5 weight % sulfur.	§ 60.44c(a) § 60.44c(d) § 60.44c(h) § 60.44c(j) § 60.46c(e)	[G]§ 60.48c(e) [G]§ 60.48c(f) § 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(b) § 60.48c(d) [G]§ 60.48c(e) § 60.48c(j)
GRP-BLR1	EU	60Dc-DO	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3)	[G]§ 60.48c(a) § 60.48c(j)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).		§ 60.48c(i)	
GRP-BLR1	EU	60Dc-DO	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BLR1	EU	60Dc-NG	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BLR1	EU	60Dc-NG	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BLR1	EU	60Dc-NG	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a) § 60.48c(j)
GRP-BLRSTACK	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						source on which construction was begun after January 31, 1972.			
GRP-CTSTACK	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
GRP-CTSTACK	EP	R5121-CT	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(c)(1)(C) § 115.127(c)(1)	A vent gas stream having a concentration of the VOC specified in §115.121(c)(1)(B) and (C) of this title less than 30,000 ppmv is exempt from the requirements of §115.121(c)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
GRP-DSLUNLOAD	EU	R5211	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.212(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
GRP-GEN1	EU	60IIII	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a CO emission limit of 11.4 g/KW-hr, as listed in Table 1 to this subpart.	None	None	[G]§ 60.4214(d)
GRP-GEN1	EU	60IIII	Hydrocarbons	40 CFR Part 60,	§ 60.4205(a)-Table 1	Owners and operators of	None	None	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Subpart IIII	§ 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with an HC emission limit of 1.3 g/KW-hr, as listed in Table 1 to this subpart.			
GRP-GEN1	EU	60IIII	NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 37 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a NO _x emission limit of 9.2 g/KW-hr, as listed in Table 1 to this subpart.	None	None	[G]§ 60.4214(d)
GRP-GEN1	EU	60IIII	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(a)-Table 1 § 60.4206 § 60.4207(b) § 60.4211(b) § 60.4211(b)(1) [G]§ 60.4211(f) § 60.4218	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and a displacement of less than 10 liters per cylinder and is a pre-2007 model year must comply with a PM emission limit of 0.54 g/KW-hr, as listed in Table 1 to this subpart.	None	None	None
GRP-GEN1	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
GRP-TRUCKLOAD	EU	R5211	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(b)(2) § 115.214(b)(1)(B) § 115.214(b)(1)(D) § 115.214(b)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division except as specified.	§ 115.214(b)(1)(A) § 115.214(b)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
TO-1A	EP	R5121-TO	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(C)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2) ** See Periodic Monitoring Summary	§ 115.126 § 115.126(2)	None
TO-1B	EP	R5121-TO	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(C)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2) ** See Periodic Monitoring Summary	§ 115.126 § 115.126(2)	None
TO-2	EP	R5121-TO	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(C)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis	[G]§ 115.125 § 115.126(2) ** See Periodic	§ 115.126 § 115.126(2)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	Monitoring Summary		
TO-3	EP	R5121-TO	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(C)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2) ** See Periodic Monitoring Summary	§ 115.126 § 115.126(2)	None
TO-4A	EP	R5121-TO	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(C)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2) ** See Periodic Monitoring Summary	§ 115.126 § 115.126(2)	None
TO-4B	EP	R5121-TO	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.122(c)(1) § 115.121(c)(1) § 115.122(c)(1)(C)	For all persons in Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties, any vent gas streams affected by §115.121(c)(1) must be controlled properly using one of the control requirements specified in §115.122(c)(1)(A)-(C).	[G]§ 115.125 § 115.126(2) ** See Periodic Monitoring Summary	§ 115.126 § 115.126(2)	None

Additional Monitoring Requirements

Periodic Monitoring Summary 23

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-BLR1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R2-DO
Pollutant: SO ₂	Main Standard: § 112.9(a)
Monitoring Information	
Indicator: Fuel sulfur concentration	
Minimum Frequency: Once every 6 months or with each fuel purchase	
Averaging Period: n/a	
Deviation Limit: Fuel sulfur concentration > 0.5% weight shall be considered and reported as a deviation.	
<p>Periodic Monitoring Text: The sulfur emissions from this boiler are controlled by the type of fuel selected. Compliance with the SO₂ stack exhaust limit of 440 ppmv specified in 30 TAC 112.9 is met using fuel oil not exceeding the applicable sulfur limit specified in the NSPS Subpart Dc. Therefore, compliance with the recordkeeping requirements of NSPS Dc 40 CFR 60.48c(f) will demonstrate compliance with 30 TAC 112.9 per calculations shown below:</p> <p>SO₂ exhaust concentration resulting from 0.5 weight percent sulfur in the fuel oil = (0.5 lb S/100 lb fuel oil) x (1 lb fuel oil/17,805 Btu) x (lb-mole S/32.04 lb S) x (1 lb-mole SO₂/lb-mole S) x (379.482 scf SO₂/lb-mole SO₂) x (1,000,000 Btu/11,930 scf exhaust *) x (1,000,000 ppmv) = 278.8 ppmv SO₂</p> <p>* This exhaust flow rate factor assumes 15% excess air with 2.6% O₂ in the exhaust. Minor variations in excess air and O₂ concentration can occur.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-BLRSTACK	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
<p>Deviation Limit: The presence of visible emissions shall be reported as a deviation unless an opacity test is performed. An opacity reading exceeding 20% shall be reported as a deviation.</p> <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions.</p> <p>If the result of the Test Method 9 is an opacity above the corresponding opacity limit, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRP-CTSTACK	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per quarter	
Averaging Period: Six minutes	
Deviation Limit: The presence of visible emissions shall be reported as a deviation unless an opacity test is performed. An opacity reading exceeding 15% shall be reported as a deviation.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet away, but not more than 0.25 miles away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions.</p> <p>If the result of the Test Method 9 is opacity above the corresponding opacity limit, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TO-1A	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-TO
Pollutant: VOC	Main Standard: § 115.122(c)(1)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Continuous	
Averaging Period: 1 hour	
Deviation Limit: Combustion temperature in the combustion chamber or immediately downstream thereof shall be continuously measured and recorded. Any measured temperature below 1250 degrees Fahrenheit shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber for minimum of 95 percent of the time (on an annual basis). The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any measured 1-hour average temperature below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TO-1B	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-TO
Pollutant: VOC	Main Standard: § 115.122(c)(1)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Continuous	
Averaging Period: 1 hour	
Deviation Limit: Combustion temperature in the combustion chamber or immediately downstream thereof shall be continuously measured and recorded. Any measured temperature below 1250 degrees Fahrenheit shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber for minimum of 95 percent of the time (on an annual basis). The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any measured 1-hour average temperature below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TO-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-TO
Pollutant: VOC	Main Standard: § 115.122(c)(1)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Continuous	
Averaging Period: 1 hour	
Deviation Limit: Combustion temperature in the combustion chamber or immediately downstream thereof shall be continuously measured and recorded. Any measured temperature below 1350 degrees Fahrenheit shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber for minimum of 95 percent of the time (on an annual basis). The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any measured 1-hour average temperature below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TO-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-TO
Pollutant: VOC	Main Standard: § 115.122(c)(1)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Continuous	
Averaging Period: 1 hour	
Deviation Limit: Combustion temperature in the combustion chamber or immediately downstream thereof shall be continuously measured and recorded. Any measured temperature below 1450 degrees Fahrenheit shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber for minimum of 95 percent of the time (on an annual basis). The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any measured 1-hour average temperature below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TO-4A	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-TO
Pollutant: VOC	Main Standard: § 115.122(c)(1)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Continuous	
Averaging Period: 1 hour	
Deviation Limit: Combustion temperature in the combustion chamber or immediately downstream thereof shall be continuously measured and recorded. Any measured temperature below 1655 degrees Fahrenheit shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber for minimum of 95 percent of the time (on an annual basis). The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any measured 1-hour average temperature below the minimum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: TO-4B	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-TO
Pollutant: VOC	Main Standard: § 115.122(c)(1)
Monitoring Information	
Indicator: Combustion Temperature	
Minimum Frequency: Continuous	
Averaging Period: 1 hour	
Deviation Limit: Combustion temperature in the combustion chamber or immediately downstream thereof shall be continuously measured and recorded. Any measured temperature below 1600 degrees Fahrenheit shall be considered and reported as a deviation.	
Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber for minimum of 95 percent of the time (on an annual basis). The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with manufacturer's specifications or other written procedures. Any measured 1-hour average temperature below the minimum limit shall be considered and reported as a deviation.	

Permit Shield

Permit Shield 33

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
DT-1	N/A	30 TAC Chapter 115, Storage of VOCs	Unit is a storage tank that stores VOCs with a true vapor pressure less than 1.5 psia.
DT-1	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
DT-2	N/A	30 TAC Chapter 115, Storage of VOCs	Unit is a storage tank that stores VOCs with a true vapor pressure less than 1.5 psia.
DT-2	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
DT-3	N/A	30 TAC Chapter 115, Storage of VOCs	Unit is a storage tank that stores VOCs with a true vapor pressure less than 1.5 psia.
DT-3	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
FAB1	N/A	40 CFR Part 63, Subpart BBBB	The site is not a major source of HAPs.
FAB2	N/A	40 CFR Part 63, Subpart BBBB	The site is not a major source of HAPs.
GASUNLOAD	N/A	30 TAC Chapter 115, Stage I M. V. Fuel Dispense	Unit is not located at a motor vehicle fuel dispensing facility as defined in 30 TAC 101.1.
GEN1	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
GEN1	N/A	30 TAC Chapter 117, Subchapter E, Division 1	Unit is not a utility electric power boiler or stationary gas turbine.
GEN1	N/A	40 CFR Part 60, Subpart IIII	The unit, which is not a fire pump engine, was constructed prior to July 11, 2005 and was manufactured prior to April 1, 2006.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GEN2	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
GEN2	N/A	30 TAC Chapter 117, Subchapter E, Division 1	Unit is not a utility electric power boiler or stationary gas turbine.
GEN2	N/A	40 CFR Part 60, Subpart IIII	The unit, which is not a fire pump engine, was constructed prior to July 11, 2005 and was manufactured prior to April 1, 2006.
GEN3	N/A	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
GEN3	N/A	30 TAC Chapter 117, Subchapter E, Division 1	Unit is not a utility electric power boiler or stationary gas turbine.
GEN3	N/A	40 CFR Part 60, Subpart IIII	The unit, which is not a fire pump engine, was constructed prior to July 11, 2005 and was manufactured prior to April 1, 2006.
GRP-BLR1	B-1, B-2, B-3	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
GRP-BLR1	B-1, B-2, B-3	30 TAC Chapter 117, Subchapter E, Division 1	Unit does not generate electricity for compensation.
GRP-BLR1	B-1, B-2, B-3	40 CFR Part 63, Subpart DDDDD	Unit is not located at a major source of HAP.
GRP-BLR1	B-1, B-2, B-3	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler that fires gaseous

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
			fuels not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel.
GRP-BLR2	B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-7, B-8, B-9	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
GRP-BLR2	B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-7, B-8, B-9	30 TAC Chapter 117, Subchapter E, Division 1	The unit does not generate electricity for compensation.
GRP-BLR2	B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-7, B-8, B-9	40 CFR Part 60, Subpart Dc	Maximum design heat input capacity of unit is less than 10 million British thermal units per hour (MMBtu/h).
GRP-BLR2	B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-7, B-8, B-9	40 CFR Part 63, Subpart DDDDD	Unit is not located at a major source of HAP.
GRP-BLR2	B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23, B-7, B-8, B-9	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler that fires gaseous fuels not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel.
GRP-CT	CT-1, CT-2, CT-3, CT-4	40 CFR Part 63, Subpart Q	Unit is not operated with chromium-based water treatment chemicals.
GRP-DRT	DRT-1, DRT-2, DRT-3	30 TAC Chapter 115, Storage of VOCs	Unit is a storage tank that stores VOC's with a true vapor pressure less than 1.5 psia.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GRP-DRT	DRT-1, DRT-2, DRT-3	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
GRP-GEN1	GEN10, GEN11, GEN12, GEN4, GEN5, GEN6, GEN7, GEN8, GEN9	30 TAC Chapter 115, Vent Gas Controls	Unit is a combustion unit that is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
GRP-GEN1	GEN10, GEN11, GEN12, GEN4, GEN5, GEN6, GEN7, GEN8, GEN9	30 TAC Chapter 117, Subchapter E, Division 1	Unit is not a utility electric power boiler or stationary gas turbine.
GRP-OILVNT	GEN10-OIL, GEN11-OIL, GEN1-OIL, GEN2-OIL, GEN3-OIL, GEN4-OIL, GEN5-OIL, GEN6-OIL, GEN7-OIL, GEN8-OIL, GEN9-OIL	30 TAC Chapter 115, Vent Gas Controls	Unit is exempt from this division since the unit is not being used as a control device for any vent gas stream which is subject to this division and which originates from a non-combustion source.
GRP-ST1	ST-1, ST-12, ST-14, ST-15, ST-2, ST-21, ST-22, ST-23, ST-26, ST-29, ST-3, ST-30, ST-31, ST-34, ST-35, ST-36, ST-37, ST-38	30 TAC Chapter 115, Storage of VOCs	Storage vessel is not used to store VOC
GRP-ST1	ST-1, ST-12, ST-14, ST-15, ST-2, ST-21, ST-22, ST-23, ST-26, ST-29, ST-3, ST-30, ST-31, ST-34, ST-35, ST-36, ST-37, ST-38	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
GRP-ST2	ST-10, ST-16, ST-24, ST-27, ST-28, ST-32, ST-33, ST-8, ST-9	30 TAC Chapter 115, Storage of VOCs	Unit is storage tank that stores VOCs with a true vapor pressure less than 1.5 psia.
GRP-ST2	ST-10, ST-16, ST-24, ST-27, ST-28, ST-32, ST-33, ST-8, ST-9	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
GT-1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage capacity is 1,000 gallons or less.
GT-1	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
MAINTPAINT	N/A	40 CFR Part 63, Subpart Mmmm	The site is not a major source of HAPs.
ST-11	N/A	30 TAC Chapter 115, Storage of VOCs	Storage vessel is not used to store VOC
ST-11	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
ST-13	N/A	30 TAC Chapter 115, Storage of VOCs	Storage vessel is not used to store VOC
ST-13	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.
ST-25	N/A	30 TAC Chapter 115, Storage of VOCs	Storage vessel is not used to store VOC
ST-25	N/A	40 CFR Part 60, Subpart Kb	Storage vessel capacity is less than 75 cubic meters.

New Source Review Authorization References

New Source Review Authorization References	39
New Source Review Authorization References by Emission Unit	40

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 31811	Issuance Date: 01/11/2019
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.266	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 03/14/1997
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.471	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 03/14/1997
Number: 106.532	Version No./Date: 09/09/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
AS-12	ACID SCRUBBER 12	31811
AS-13	ACID SCRUBBER 13	31811
AS-14	ACID SCRUBBER 14	31811
AS-15	ACID SCRUBBER 15	31811
AS-16	ACID SCRUBBER 16	31811
AS-17	ACID SCRUBBER 17	31811
AS-18	ACID SCRUBBER 18	31811
AS-19	ACID STACK 19	31811
AS-1	ACID SCRUBBER 1	31811
AS-20	ACID STACK 20	31811
AS-21	ACID STACK 21	31811
AS-22	ACID STACK 22	31811
AS-2	ACID SCRUBBER 2	31811
AS-3	ACID SCRUBBER 3	31811
AS-4	ACID SCRUBBER 4	31811
AS-6	ACID SCRUBBER 6	31811
AS-7	ACID ACRUBBER 7	31811
AS-8	ACID SCRUBBER 8	31811
AS-9	ACID SCRUBBER 9	31811
B-10	BOILER 10	106.183/09/04/2000
B-11	BOILER 11	106.183/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
B-12	BOILER 12	106.183/09/04/2000
B-13	BOILER 13	106.183/09/04/2000
B-14	BOILER 14	106.183/09/04/2000
B-15	BOILER 15	106.183/09/04/2000
B-16	BOILER 16	106.183/09/04/2000
B-17	BOILER 17	106.183/09/04/2000
B-18	BOILER 18	106.183/09/04/2000
B-19	BOILER 19	106.183/09/04/2000
B-1	BOILER 1	31811
B-20	BOILER 20	106.183/09/04/2000
B-21	BOILER 21	106.183/09/04/2000
B-22	BOILER 22	106.183/09/04/2000
B-23	BOILER 23	106.183/09/04/2000
B-2	BOILER 2	31811
B-3	BOILER 3	31811
B-7	BOILER 7	106.183/09/04/2000
B-8	BOILER 8	106.183/09/04/2000
B-9	BOILER 9	106.183/09/04/2000
BS-10	BASE STACK 10	31811
BS-11	BASE STACK 11	31811
BS-12	BASE STACK 12	31811

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
BS-16	BASE STACK 16	31811
BS-17	BASE STACK 17	31811
BS-18	BASE STACK 18	31811
BS-1	BASE STACK 1	31811
BS-2	BASE STACK 2	31811
BS-3	BASE STACK 3	31811
BS-4	BASE STACK 4	31811
BS-5	BASE STACK 5	31811
BS-6	BASE STACK 6	31811
BS-7	BASE STACK 7	31811
BS-8	BASE STACK 8	31811
BS-9	BASE STACK 9	31811
BS-X	BASE STACK X	31811
CT-1	COOLING TOWER 1	106.371/03/14/1997
CT-1	COOLING TOWER 1 EXHAUST	106.371/03/14/1997
CT-2	COOLING TOWER 2	106.371/03/14/1997
CT-2	COOLING TOWER 2 EXHAUST	106.371/03/14/1997
CT-3	COOLING TOWER 3	106.371/09/04/2000
CT-3	COOLING TOWER 3 EXHAUST	106.371/09/04/2000
CT-4	COOLING TOWER 4	106.371/09/04/2000
CT-4	COOLING TOWER 4 EXHAUST	106.371/09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
DRT-1	DIESEL RELAY TANK 1	106.472/03/14/1997
DRT-2	DIESEL RELAY TANK 2	106.472/03/14/1997
DRT-3	DIESEL RELAY TANK 3	106.472/03/14/1997
DSLUNLOAD2	DIESEL UNLOADING 2	106.472/09/04/2000
DSLUNLOAD	DIESEL UNLOADING	106.472/03/14/1997
DT-1	DIESEL TANK 1	106.472/03/14/1997
DT-2	DIESEL TANK 2	106.472/09/04/2000
DT-3	DIESEL TANK 3	106.472/09/04/2000
FAB1	FABRICATION BUILDING 1	31811
FAB2	FABRICATION BUILDING 2	31811
GASUNLOAD	GASOLINE UNLOADING	106.473/09/04/2000
GEN10	GENERATOR 10	31811
GEN10-OIL	GENERATOR ENGINE 10 CRANK CASE VENT	31811
GEN11	GENERATOR 11	31811
GEN11-OIL	GENERATOR ENGINE 11 CRANK CASE VENT	31811
GEN12	GENERATOR 12	31811
GEN1	GENERATOR ENGINE 1	31811
GEN1-OIL	GENERATOR ENGINE 1 CRANK CASE VENT	31811
GEN2	GENERATOR ENGINE 2	31811
GEN2-OIL	GENERATOR ENGINE 2 CRANK CASE VENT	31811
GEN3	GENERATOR ENGINE 3	31811

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
GEN3-OIL	GENERATOR ENGINE 3 CRANK CASE VENT	31811
GEN4	GENERATOR ENGINE 4	31811
GEN4-OIL	GENERATOR ENGINE 4 CRANK CASE VENT	31811
GEN5	GENERATOR 5	31811
GEN5-OIL	GENERATOR ENGINE 5 CRANK CASE VENT	31811
GEN6	GENERATOR 6	31811
GEN6-OIL	GENERATOR ENGINE 6 CRANK CASE VENT	31811
GEN7	GENERATOR 7	31811
GEN7-OIL	GENERATOR ENGINE 7 CRANK CASE VENT	31811
GEN8	GENERATOR 8	31811
GEN8-OIL	GENERATOR ENGINE 8 CRANK CASE VENT	31811
GEN9	GENERATOR 9	31811
GEN9-OIL	GENERATOR ENGINE 9 CRANK CASE VENT	31811
GT-1	GASOLINE TANK 1	106.473/09/04/2000
MAINTPAINT	MAINTENANCE PAINTING	106.263/11/01/2001
ST-10	STORAGE TANK 10 - SECONDARY PHOTORESIST WASTE	31811
ST-11	STORAGE TANK 11 - NDR/FOX WASTE	31811
ST-12	16000 GALLON ACID WASTE WATER TANK	31811
ST-13	EMERGENCY FLUORIDE WASTEWATER TANK	31811
ST-14	CONCENTRATED CU WW TANK	31811
ST-15	DILUTE CU WW TANK	31811

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
ST-16	PSPI TANK	106.473/09/04/2000
ST-1	STORAGE TANK 1 • - ACID WASTE WATER	31811
ST-21	STORAGE TANK 21 • - ACID WASTE WATER	31811
ST-22	STORAGE TANK 22 - CONCENTRATED CU WASTEWATER	31811
ST-23	STORAGE TANK 23 - FLUORIDE WASTEWATER	31811
ST-24	STORAGE TANK 24 - STRIPPER AND IPA WASTE	31811
ST-25	SODIUM HYDROXIDE TANK	31811
ST-26	STORAGE TANK 26 - PHOSPHORIC ACID WASTE	31811
ST-27	STORAGE TANK 27 - PHOTORESIST WASTE	31811
ST-28	STORAGE TANK 28 - ARF WASTE	31811
ST-29	CONCENTRATED CU WW TANK	31811
ST-2	STORAGE TANK 2 - SULFURIC ACID WASTE	31811
ST-30	SULFURIC ACID WASTE	106.472/09/04/2000
ST-31	SULFURIC ACID WASTE	106.472/09/04/2000
ST-32	HF/EG TANK	106.262/11/01/2003
ST-33	SPINFILL	106.473/09/04/2000
ST-34	DILUTE CU WW TANK	106.472/09/04/2000
ST-35	SULFURIC ACID WASTE (SPM) TANK	31811
ST-36	SULFURIC ACID WASTE (SPM) TANK	31811
ST-37	SULFURIC ACID WASTE (SPM) TANK	31811
ST-38	ARF/NRD TANK	31811

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
ST-3	STORAGE TANK 3 - FLUORIDE WASTEWATER	31811
ST-8	STORAGE TANK 8 - SECONDARY STRIPPER WASTE	31811
ST-9	STORAGE TANK 9 - IPA WASTE	31811
TO-1A	THERMAL OXIDIZER 1A	31811
TO-1B	THERMAL OXIDIZER 1B	31811
TO-2	THERMAL OXIDIZER 2	31811
TO-3	THERMAL OXIDIZER 3	31811
TO-4A	THERMAL OXIDIZER 4A	31811
TO-4B	THERMAL OXIDIZER 4B	31811
TRUCKLOAD2	TRUCK LOADING RACK 2 - MISC SOLVENT RECOVERY	31811
TRUCKLOAD	TRUCK LOADING RACK 1 - MISC SOLVENT RECOVERY	31811

Appendix A

Acronym List 48

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
COMS	continuous opacity monitoring system
CVS	closed vent system
D/FW	Dallas/Fort Worth (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO _x	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PEMS	predictive emissions monitoring system
PM	particulate matter
ppmv	parts per million by volume
PRO	process unit
PSD	prevention of significant deterioration
psia	pounds per square inch absolute
SIP	state implementation plan
SO ₂	sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound